

Application No.: 10/046,117

Locket No.: 16159/020001; P6415

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In re Patent Application of:
Peter A. Yared, et al.

Conf. No.: 1021

Application No.: 10/046,117

Art Unit: 2141

Filed: January 11, 2002

Examiner: B. TIV

For: DYNAMIC CASTING OF OBJECTS WHILE
TRANSPORTING

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450**DECLARATION PURSUANT TO 37 CFR §1.131**

In connection with the Applicant's Response to the Office Action issued on February 2, 2006, this declaration sets forth the pertinent facts proving conception of the claimed invention prior to October 2000.

1. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, are the listed inventors for U.S. Patent Application 10/046,117 entitled "DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING"
2. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, conceived the claimed invention prior to at least October, 2000, as evidenced by: (i) an Invention Disclosure e-mailed to us on May 3, 2001, in which we were listed as inventors and (ii) the printout of a web page entitled "Transport Packager" referenced by the invention disclosure (see Invention Disclosure, p. 3). The content

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Docket No.: 16159/020001; P6415

of the web page created on or before October 10, 2000 as evidenced by the "Last Modified" information (*see* printout, p. 4) and the printout was generated on May 10, 2001 (*see* printout, p. 1). A copy of the invention disclosure is attached under Tab 1 and the print out entitled "Transport Packager" is attached under Tab 2.

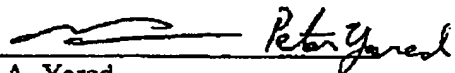
3. We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, diligently worked on the reduction to practice of the invention from, at least, the date established by the web page (see attached) until, at least, the date of constructive reduction to practice established by the filing of U.S. Patent Application 10/046,117, filed on January 11, 2002. See attached correspondence and documentation and chronology of attorney time on the referenced application during preparation of the referenced application Tabs 3 and 4.

Application No.: 10/046,117

Docket No.: 16159/020001; P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, hereby declare that all statements made herein of our own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this day 26, of 2006.


Peter A. Yared

Signed this day _____, of _____.

Bruce K. Daniels

Signed this day _____, of _____.

Robert N. Goldberg

Signed this day _____, of _____.

Yury Kamen

Signed this day _____, of _____.

Syed M. Ali

153706_1

Application No.: 10/046,117

Docket No.: 16159/020001; P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, hereby declare that all statements made herein of our own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this day _____, of _____.

Signed this day 30, of May 2006.

Signed this day _____, of _____.

Signed this day 29, of May 2006.Signed this day 30, of May 2006.

153706_1

Peter A. Yared

Bruce K. Daniels
Bruce K. Daniels

Robert N. Goldberg

Yury Kamen
Yury KamenSyed M. Ali
Syed M. Ali

Application No.: 10/046,117

Docket No.: 16159A020001: P6415

We, Peter A. Yared, Bruce K. Daniels, Robert N. Goldberg, Yury Kamen, and Syed M. Ali, hereby declare that all statements made herein of our own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this day _____, of _____

Peter A. Yared

Signed this day _____, of _____

Bruce K. DanielsSigned this day 31, of May, 2006_____
Robert N. Goldberg
Robert N. Goldberg

Signed this day _____, of _____

Yury Kamen

Signed this day _____, of _____

Syed M. Ali

157706 1

Tab 1

MAY-10-01 THU 05:29 PM CTO SMI LEGAL DEPT

ROSENTHAL & OSHA L.L.P.

FAX NO. 6507869805

011

P. 27

Mail for Diane Terry-Davis

Thu, 3 May 2001 11:21:19 -0700 (PDT)

Page

1

Peter,

Here's a copy of your disclosure with the Sun reference number assigned to it (P6415). Please use this reference number when referring to this matter in the future. Should you have questions regarding the status of this disclosure, please contact your Managing Sun Attorney (listed below). Questions regarding any patent incentive payments should be directed to Kristine Bombaci, Incentive Program Specialist, x60821. Thank you again for submitting this disclosure!

Kristine:

Approved for bonus?
\$120 each.

- 1) PETER YARED (EIN: 81072)
- 2) BRUCE DANIELS (EIN: 4278)
- 3) ROBERT GOLDBERG (EIN: 28416)
- 4) YURY KAMEN (EIN: 22083)
- 5) SYED ALI (EIN: 89472)

Note to the inventor(s): If approved, the incentive transaction will be processed two weeks from today. This means that your incentive payment may not show up until the pay period after the processing date.

YARED, PETER
DANIELS, BRUCE
GOLDBERG, ROBERT
KAMEN, YURY
ALI, SYED

----- Begin Forwarded Message -----

X-Unix-From: nobody@patents.Corp.Sun.COM Wed May 2 13:21:34 2001
Date: Wed, 2 May 2001 13:21:08 -0700 (PDT)
From: "peter.yared@eng.sun.com" <nobody@patents.Corp.Sun.COM>
To: undisclosed-recipients;

NEW INVENTION DISCLOSURE BY Peter Yared
(peter.yared@eng.sun.com)

ATTORNEY-CLIENT PRIVILEGED COMMUNICATION

Here is your copy of the new Invention Disclosure that you have just submitted. We will contact you shortly about preparing the patent application.

P6415 - Invention Disclosure - Yared

11/29/2006 21:28 FAX 7132288778

OSHA_LIANG_LLP
ROSENTHAL & OSHA L.L.P.

018/037

MAY-10-01 THU 05:30 PM CTO SMI LEGAL DEPT

FAX NO. 6507869805

012

P. 28

Mail for *Diane Terry-Davis*

Thu, 3 May 2001 11:21:19 -0700 (PDT)

Page
2

Thank you, Peter Yared, for submitting this disclosure.

[REDACTED]

P6415 - Invention Disclosure - Yared

05/10/01 THU 19:21 [TX/RX NO 89091

MAY-10-01 THU 05:30 PM CTO SMI LEGAL DEPT

ROSENTHAL & OSHA L.L.P.

013

FAX NO. 6507869805

P. 29

Mail for Diane Terry-Davis

Thu, 3 May 2001 11:21:19 -0700 (PDT)

Page
3

4. WRITTEN DESCRIPTION

The invention is described as follows:

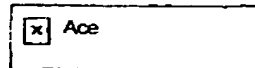
The Transport Packager enables a programmer to specify what classes to cast into different classes. There are numerous methods supplied to enable the casting, including explicitly specifying class names, adding a suffix by a class' superclass, and searching and replacing within the text of the class' name. The Transport Packager uses the casting guidelines provided to automatically cast an object into a new class. The Transport Packager can then recreate the original object as an object of a new class. A complete description and full documentation is available at:
<http://sunlabs.eng/projects/ace/Milestone2/TransportPackager/TransportPackager.html>

P6415 - Invention Disclosure - Yared

Tab 2

TransportPackager

Page 1 of 4



TransportPackager

The Ace TransportPackager provides maximum flexibility for client/server data movement.

Problem Statement

In Java-based distributed computing environments, it is extremely difficult to send a graph of complex, arbitrary objects between address spaces and retain the sharing of the instances through the graph. RMI requires that the objects are serializable and IIOP requires that the objects be composed of simple IDL types.

Solution

The TransportPackager converts a graph of complex, arbitrary objects into a single object that can be transported using existing protocols such as RMI and IIOP or stored and retrieved from disk.

TransportPackager Features and Benefits

Feature	Benefit
Packages an Object Graph for Transport	Packaged object can be sent over simple wire protocols such as RMI and IIOP, or simply stored to disk.
Multiple Object Access Options	Uses either Java reflection or JavaBean introspection and works with most Java classes, included Enterprise JavaBeans.
Preserves Instance Sharing	Complex object graphs are preserved, and duplicate instances are only packaged once for transport.
Completely Orthogonal	Classes do not need to implement any interfaces in order to work with the TransportPackager.

TransportPackager

Page 2 of 4

Allows Object to be Trimmed	Specific members of the object graph may be specified for transport & all others are ignored.
Extensive Class Casting	Instances can automatically be converted into similar classes with similar members.
Multiple Implementations	HashtableTransportPackager and XMLTransportPackager are included in the package.
Extensible	An interface is provided to manage the introspection and recreation of objects if a particular application requires extensive control.

Packages an Object for Transport

The TransportPackager packages an object graph by converting each object in the object graph into a new object that is appropriate for transport. The TransportPackager has a very simple, easy to use interface and can quickly be integrated into an existing distributed computing application. Following is an example of the API in use:

```
// Code on machine 1
Object o = new MyComplexObject();
TransportPackager transportPackager = new HashtableTransportPackager();
Object o2 = transportPackager.flatten(o);

// Code on machine 2
Object o = new ObjectReceivedFromTransport();
TransportPackager transportPackager = new HashtableTransportPackager();
Object o2 = transportPackager.expand(o);
```

Multiple Object Access Options

The TransportPackager can use either Java language reflection or JavaBeans introspection to read and write object members. Reflection is recommended for most cases, as it is more efficient. However, reflection does not work with certain objects, such as Enterprise JavaBeans. For such cases, introspection is recommended.

In order to be recreated by the TransportPackager, objects must have a default constructor and be instantiable without any parameters. When using reflection, all members (including protected and private members) that are non-transient are persisted. When using introspection, all JavaBean properties are persisted.

TransportPackager

Page 3 of 4

Preserves Instance Sharing

The TransportPackager preserves complex object graphs in which the same instance appears multiple times. In addition, such duplicate instances are only packaged once for transport, reducing transport size.

Completely Orthogonal

The TransportPackager is completely orthogonal & classes do not need to implement any interfaces in order to work with the TransportPackager. The TransportPackager breaks instances down into fundamental Java types using either Java reflection or JavaBean introspection, and therefore does not require that classes implement *Serializable*, as most Java transports require.

Allows Object to be Trimmed

The TransportPackager allows the developer to specify paths into the object graph such that only relevant members are packaged for transport. For example, in a graph that contains an Employee instance that has numerous members, and only the first and last name are actually required for transport, the following usage may be specified:

```
lastName  
firstName
```

If the employee's manager's last name is required as well, the usage may be nested:

```
lastName  
firstName  
manager.lastName
```

The ability to trim objects is very useful when only subsets of an object graph are required on the client.

Extensive Class Casting

With its extensive class casting features, the TransportPackager enables instances to be automatically converted into similar classes with similar members. This is particularly useful when transporting objects between a client and a server where the implementations are in fact completely different but the objects share a common interface or simply share common members.

The TransportPackager supports three methods of casting classes:

Method	Description	Example
Mapping	Maps a specifically named class to another specifically named class	Employee -> MyEmployeeBean
Suffix	Adds a suffix to a class name for instances of a superclass	Employee -> EmployeeProxy

TransportPackager

Page 4 of 4

Parser	Performs a search and replace to a class name for instances of a superclass	EmployeeBean -> EmployeeProxy
--------	---	-------------------------------

If the above three methods are not sufficient, the developer may hook into the TransportPackager to specifically provide a target class name for a particular class (see Extensible below).

Multiple Implementations

TransportPackager is in fact an interface, and the TransportPackager package includes two implementations of that interface: HashtableTransportPackager and XMLTransportPackager.

The HashtableTransportPackager converts objects into a subclass of java.util.Hashtable to store instance members. All properties are reduced to fundamental types by following the object tree and converting each instance into a hashtable. The resulting tree of Hashtables can be serialized, even if the original objects did not implement serializable.

The XMLTransportPackager is provided to support interoperability with non-Java platforms. It creates a very clean XML that uses the original objects' class and member names. An "id" attribute insures that duplicate instance references are not written multiple times into the XML file.

Extensible


An interface is provided to manage the introspection and recreation of objects if a particular application requires extensive control. Implementations of the interface can control how an object is introspected, recreated, and cast.

Code Documentation

For more specifics about the code, please examine the [TransportPackager's JavaDoc](#) information.

[Sun Labs](#)
[Home](#)
[Back to Top](#)

This page is: <http://sunlabs.eng/projects/ace/Milestone2/TransportPackager/TransportPackager.html>
Modified: Tue, 10 Oct 2000 17:59:22 GMT
Sun Proprietary / Confidential: Internal Use Only

Last Modified: 

[home](#) | [preferences](#)

Tab 3

ROSENTHAL & OSHA L.L.P.

UNITED STATES
EUROPE

ONE HOUSTON CENTER • SUITE 2800
1221 MCKINNEY AVENUE
HOUSTON • TEXAS 77010

EUROPEAN OFFICE:
121, AVENUE DES CHAMPS ÉLYSÉES
75008 PARIS • FRANCE

TELEPHONE: (713) 228-8600

FACSIMILE: (713) 228-8778

E-MAIL: osha@rosha.com

January 11, 2002

Mr. Sean Lewis
Sun Microsystems, Inc.
M/S: PAL01-521
901 San Antonio Road
Palo Alto, CA 94303

Re: New U.S. Patent Application Entitled
"Dynamic Casting of Objects While Transporting"
Inventors: Peter A. Yared et al.
Our File: 16159.020001
Your Reference: P6415

Dear Sean:

We confirm filing of the referenced Utility Application and Assignment with the U.S. Patent and Trademark Office on January 11, 2002, and enclose copies for your records.

Please note that we have one year from the filing date, namely, January 11, 2003, in which to file foreign applications claiming priority of the U.S. patent application. We will keep this date in our docketing system and will remind you of the deadline as the date draws closer.

Currently, we expect this application will be set for publication by the U.S. Patent Office around July 11, 2003. Please note that upon publication, it will be possible for third parties to view the above application. It is also possible for third parties to submit information to be considered by the examiner in your patent application. However, it is not possible for third parties to oppose your application before issuance without your express consent. If you would like further information regarding this process, please contact us.

In addition, we take this opportunity to remind you of the duty of candor under 37 CFR § 1.56. If you or the applicant should become aware of any information material to the examination of this application, kindly provide it to us as soon as possible so that it may be submitted to the Patent and Trademark Office in an Information Disclosure Statement.

ROSENTHAL & OSHA L.L.P.

Mr. Sean Lewis
January 11, 2002
Page 2

We will report to you further in due course. If you have any comments or questions, please do not hesitate to contact us.

Very truly yours,



Jonathan P. Osha

JPO/azd/lhs
Enclosures

cc: Peter A. Yared
Bruce K. Daniels
Robert N. Goldberg
Yury Kamen
Syed M. Ali
w/enclosures

24436_1.DOC

SUITE 4550
700 LOUISIANA STREET
HOUSTON, TEXAS 77002
TELEPHONE: (713) 228-8600
FACSIMILE: (713) 228-8778

ROSENTHAL & OSHA L.L.P.

Fax

Date: November ²⁰~~18~~, 2001

File: 16159/020001; P6415

To: SYED M. ALI

Fax No.: 1-650-969-7269

CC:

From: Robert Lord

Re: Draft Application
DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING

Pages (Including cover sheet):

~~23~~ 24

☐ **URGENT!**

☐ Please Reply

☒ Please Review
& Comment

☐ For Your
Information

• **COMMENTS:**

Syed:

Attached is a final draft incorporating the changes we discussed of the referenced application. If you have any questions, I can be reached at 713-228-8600 or by email at lord@rosha.com.

Regards,



Robert Lord

22620_1.DOC

CONFIDENTIALITY NOTICE

This document (including any attachments) may contain privileged or confidential information. In the event that this document has been sent to you in error, or otherwise has been misdirected, please call the sender COLLECT at (713) 228-8600 to arrange for its prompt return or destruction. Your cooperation is greatly appreciated.

*** ERROR TX REPORT ***

TX FUNCTION WAS NOT COMPLETED

TX/RX NO 4331
CONNECTION TEL 16509697269
SUBADDRESS
CONNECTION ID
ST. TIME 11/20 13:22
USAGE T 02'06
PGS. SENT 6
RESULT NG #001

SUITE 4550
700 LOUISIANA STREET
HOUSTON, TEXAS 77002
TELEPHONE: (713) 228-8600
FACSIMILE: (713) 228-8778

ROSENTHAL & OSHA L.L.P.

Fax

Date: November ²⁰15, 2001

File: 16159/020001; P6415

To: SYED M. ALI

Fax No.: 1-650-969-7269

CC:

From: Robert Lord

Re: Draft Application
DYNAMIC CASTING OF OBJECTS WHILE TRANSPORTING

Pages (including cover sheet): *** 23 24 ***

☐ URGENT!

☐ Please Reply

☒ Please Review
& Comment

☐ For Your
Information

• COMMENTS:

Syed:

Attached is a final draft incorporating the changes we discussed of the referenced application. If you have any questions, I can be reached at 713-228-8600 or by email at lord@rosha.com.

Regards,
RAI

Sun Microsystems, Inc.
901 San Antonio Road, MS PAL01-521
Palo Alto, CA 94303
Tel (650) 336-6000
Fax (650) 482-6796



Via Facsimile Only

May 11, 2001

Jonathan Osha, Esq.
Rosenthal & Osha L.L.P.
700 Louisiana Street, Ste. 4550
Houston, TX 77002

**** URGENT ****

Re: New Patent Application entitled: Dynamic Casting of Objects While Transporting
Inventors: Peter Yared, Bruce Daniels, Robert Goldberg, Yury Kamen, and Syed Ali
Sun File No.: P6415
Business Line: SL/CA - ACE

Dear Jon:

Enclosed is the above-identified invention disclosure. Sun has selected you for the preparation of this patent application based on our understanding that you will personally write or supervise the application. *Please note that this is an urgent filing request. Please file this application no later than MAY 30, 2001.*

As counsel on behalf of Sun, it is your responsibility to (1) work directly with the inventor(s) in preparing the application; (2) determine all relevant events regarding any potential U.S. or international patent bar dates; and (3) obtain the necessary signatures and file the application in a timely manner to preserve both U.S. and international patent rights. Please contact me immediately in the event of any problems. The Sun technical/primary inventor contact for this case is Peter Yared, who can be reached at peter.yared@sun.com, 650.336.2728.

With regard to this application, please note the following:

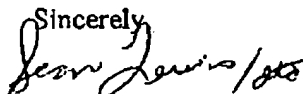
1. Please notify me when you have set a date and location for your first disclosure meeting with the inventor.
2. Please send me a copy of the first draft of the application when it is sent to the inventor for review.
3. Please also provide me with a copy of the final draft application, in time for me to review and provide comments prior to filing the application.
4. When preparing the Power of Attorney form, please add the following attorneys:

Jonathan Osha, Esq.
Rosenthal & Osha I.L.P.
Re: P6415
May 10, 2001
Page 2

Kenneth Olson, Reg. No. 26,493
Timothy J. Crean, Reg. No. 37,116
Alexander E. Silverman, Reg. No. 37,940
Anirna R. Gupta, Reg. No. 38,275
Sean P. Lewis, Reg. No. 42,798
Michael J. Schallop, Reg. No. 44,319
Bernico B. Chen, Reg. No. 42,403
Norcen A. Krall, Reg. No. 39,734
Richard J. Lutton, Reg. No. 39,756
Monica D. Ward, Reg. No. 40,696
Marc D. Foodman, Reg. No. 34,110
Narcis Chaganti, Reg. No. 44,602
Elaine Lee, Reg. No. 41,936
Hugh H. Matsubayashi, Reg. No. 43,779
Paul D. Sorkin, Reg. No. 39,039
Marilyn F. Glaubensklau, Reg. No. 35,521
Ramin Aghevli, Reg. No. 43,462
Andrew C. Chen, Reg. No. 43,544
and Jeffrey L. Myers, Reg. No. 44,252
of SUN MICROSYSTEMS, INC.,
901 San Antonio Road, Palo Alto, CA, 94303

5. When you have received my approval of the final draft, please have the inventors execute the formal papers and file it. Please also notify me by e-mail at sean.lewis@sun.com of the date filed.
6. Per Sun procedures, please permit publication of this case in the United States unless contrary instructions are given.
7. As per our current billing agreement, this application is to be billed at actual cost up to a cap of \$7,200.00. Please call me at 510.869.2064 if you have any questions about this.

If you have any questions or comments regarding this matter, please do not hesitate to call.

Sincerely,

Sean P. Lewis, Esq.
Sr. Patent Counsel

Enclosures
/Dtd

/home/dtdavis/2-11/Management/Engagement Letters/2000-Lira/P6415.Rosenthal.Leng.Lr.schw

Tab 4

Client	Trans Date	Tmtr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #
Entry Date 05/14/2001	16159.020001	05/14/2001					Trip to California to meet Sun Lab inventors Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 05/14/2001								
Entry Date 05/15/2001	16159.020001	05/15/2001					Meeting with Robert Goldberg, Peter Yared, Bruce Daniels, Syed Ali and Yury Kamen Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	05/15/2001						Disclosure at Sun Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 05/15/2001								
Entry Date 08/10/2001	16159.020001	08/10/2001					Take disclosure from Peter Yared, et al Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 08/10/2001								
Entry Date 08/16/2001	16159.020001	08/16/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 08/16/2001								
Entry Date 08/29/2001	16159.020001	08/29/2001					Prepare patent application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 08/29/2001								
Entry Date 08/31/2001	16159.020001	08/31/2001					Prepare patent application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 08/31/2001								
Entry Date 09/01/2001	16159.020001	09/01/2001					Review application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	09/01/2001						Prepare patent application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/01/2001								
Entry Date 09/10/2001	16159.020001	09/10/2001					Review application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/10/2001								
Entry Date 09/12/2001	16159.020001	09/12/2001					Prepare patent application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/12/2001								
Entry Date 09/17/2001	16159.020001	09/17/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/17/2001								
Entry Date 09/18/2001	16159.020001	09/18/2001					Work on application Sun Microsystems, Inc.	ARCH

Client	Trans Date	Tmkr P	H P	Tcd	Rate	Hours to Bill	Amount	Ref #
Entry Date 09/18/2001							(P6415) Dynamic Casting of Objects While	
Total for Entry Date 09/18/2001								
Entry Date 09/21/2001	16159.020001	09/21/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/21/2001								
Entry Date 09/24/2001	16159.020001	09/24/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/24/2001								
Entry Date 09/26/2001	16159.020001	09/26/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/26/2001								
Entry Date 09/27/2001	16159.020001	09/27/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 09/27/2001								
Entry Date 10/07/2001	16159.020001	10/07/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 10/07/2001								
Entry Date 10/09/2001	16159.020001	10/09/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 10/09/2001								
Entry Date 10/23/2001	16159.020001	10/23/2001					Review application to send draft to inventor Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 10/23/2001								
Entry Date 10/25/2001	16159.020001	10/25/2001					Review Application and Discuss with inventors at Mountainview Campus Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 10/25/2001								
Entry Date 10/26/2001	16159.020001	10/26/2001					Review claims/discuss application with inventors at Mountainview Campus Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 10/26/2001								
Entry Date 11/05/2001	16159.020001	11/05/2001					Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/05/2001								
Entry Date 11/06/2001	16159.020001	11/06/2001					Review and update Application Sun Microsystems, Inc.	ARCH

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #
Entry Date 11/06/2001								
16159.020001	11/06/2001						(P6415) Dynamic Casting of Objects While Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/06/2001								
Entry Date 11/07/2001								
16159.020001	11/07/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/07/2001								
Entry Date 11/19/2001								
16159.020001	11/19/2001						Review and correct application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	11/19/2001						Work on application with additional inventor disclosure Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/19/2001								
Entry Date 11/20/2001								
16159.020001	11/20/2001						Correspond with inventor re: drafts Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	11/20/2001						Obtain clarification from inventor Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/20/2001								
Entry Date 11/21/2001								
16159.020001	11/21/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	11/21/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/21/2001								
Entry Date 11/27/2001								
16159.020001	11/27/2001						Meeting in CA w/inventor to discuss invention Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/27/2001								
Entry Date 11/28/2001								
16159.020001	11/28/2001						Meeting in CA w/inventor to discuss invention Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	11/28/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 11/28/2001								
Entry Date 12/05/2001								
16159.020001	12/05/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/05/2001								
Entry Date 12/06/2001								
16159.020001	12/06/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/06/2001								
Entry Date 12/11/2001								
16159.020001	12/11/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH

Detail Fee Transaction File List
Osha Liang L.L.P.

Page: 4

Client	Trans Date	Tmkr	H P	Tcd	Rate	Hours to Bill	Amount	Ref #
Entry Date 12/11/2001								
Total for Entry Date 12/11/2001								
Entry Date 12/12/2001								
16159.020001	12/12/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	12/12/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/12/2001								
Entry Date 12/13/2001								
16159.020001	12/13/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/13/2001								
Entry Date 12/20/2001								
16159.020001	12/20/2001						Work on application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/20/2001								
Entry Date 12/31/2001								
16159.020001	12/31/2001						Prepare transmittal package, file, docket and report U.S. utility application (including declaration & small entity declaration if applicable) Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	12/31/2001						Prepare and file assignment recordal document with application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	12/31/2001						Prepare and forward Power of Attorney for execution; file Power of Attorney after application and report same Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	12/31/2001						Prepare and forward assignment and declaration for execution Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 12/31/2001								
Entry Date 01/09/2002								
16159.020001	01/09/2002						Discuss application; formal papers Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 01/09/2002								
Entry Date 01/11/2002								
16159.020001	01/11/2002						Final review and filing Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	01/11/2002						Double check application Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
Total for Entry Date 01/11/2002								
Entry Date 02/22/2002								
16159.020001	02/22/2002						Submit Power of Attorney Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH
16159.020001	02/22/2002						Double check power of attorney package Sun Microsystems, Inc. (P6415) Dynamic Casting of Objects While	ARCH

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